

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CTR ACCEPTANCE

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

| | | | |
|-------------------|--|-------------------------|-------------------|
| CONTRACTOR | CONTRACT NO./TASK NO. | JOB ORDER NUMBER | APPROP. FY |
| QSS Group, Inc. | NASS- 99124 TASK NO. 362 AMENDMENT | 563-228-13-10-89 | 01 |

TASK TITLE: (NTE 80 characters; include Project name)

Destructive Physical Analysis of 160 Ah NiH2 cell for AURA Spacecraft

APPROVALS: (Type or print name and sign)

ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)

| | | | | |
|-----------|----------------|-----------------|------------------|-----------------------|
| Gopal Rao | DATE 9/7/00 | ORG CODE 563 | MAIL CODE 563 | PHONE 301-286-6654 |
|-----------|----------------|-----------------|------------------|-----------------------|

| | | | |
|---------------|----------------|-------------|-----------------------|
| Marlon Enciso | DATE 9/8/00 | CODE 563 | PHONE 301-286-5845 |
|---------------|----------------|-------------|-----------------------|

CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

| | | | |
|------------|----------------|-------------|-----------------------|
| Bob Lehair | DATE 9/9/00 | CODE 560 | PHONE 301-286-6588 |
|------------|----------------|-------------|-----------------------|

FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?
(IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)

CONTRACTING OFFICER'S QUALITY REP.

DESIGNATED FAM:

☒ NO ☐ YES

Larry Moore

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reqs and Certs.

(To be completed by Contracting Officer)

C.O. Requested Quote on:

Date:

Contractor will develop specification or statement of work under this task for a future procurement. ☒ NO ☐ YES

Flight hardware will be shipped to GSFC for testing prior to final delivery. ☐ NO ☐ YES ☒ N/A

Government Furnished Property/Facilities: ☐ NO ☒ YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: ☒ NO ☐ YES If yes: ☐ TOTAL ☐ PARTIAL
If partial, indicate onsite work in SOW by asterisk (*)

Surveillance Plan Attached: ☒ NO ☐ YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be 9/12/00.

INCENTIVE FEE STRUCTURE (check one)

| | No. 1 | No. 2 | <input checked="" type="checkbox"/> No. 3 | No. 4 | No. 5 |
|-----------|-------|-------|---|-------|-------|
| Cost | 10% | 50% | 25% | 25% | % |
| Schedule | 15% | 25% | 25% | 50% | % |
| Technical | 75% | 25% | 50% | 25% | % |

(To be completed by Contracting Officer)

The target cost of this task order is \$ 15,852

The target fee of this task order is \$ 81

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 15,933

The maximum fee is \$ 118

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"

Theresa J. Becker
SIGNATURE OF CONTRACTING OFFICER

10/4/00
DATE

Theresa J. Becker
TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR

CONTRACT NO./TASK NO.

QSS Group, Inc.

NAS5-

99124

TASK NO.

362

AMENDMENT

Applicable paragraphs from contract Statement of Work: Function 2.D.7

STATEMENT OF WORK: (Continue on blank paper if additional space is required)

The contractor shall provide services to perform Destructive Physical Analysis (DPA) of one(1) NiH₂ cell for the AURA Program. The DPA shall consist of pre-electrical characterization, followed by opening and inspection of cell components, and analyses (electrical, chemical, and metallographical) of the cell components.

The contractor shall provide the following services:

Perform pre-electrical characterization test

- Provide cell capacities at 20, 10 and 0 degrees C.
- Perform Charge retention test at 20 degrees C and cell reversal test.

Prior opening the cell, present electrical performance data from the pre-electrical characterization test to ATR and/or his representative.

Open cell:

- Perform cell gas analysis
- Notify ATR of the cell open date and time
- Take Photographs of cell components as the cell is opened
- Inspect each component within the plate stack, inner case of cell, and cell terminals
- Perform analyses of cell components
- electrical, chemical, and metallographical analyses

The contractor shall present the results from the pre-electrical characterization test to the ATR within 72 hours of the completion. The contractor shall notify the ATR of cell opening date and time 72 hours prior to the event.

Upon completion of the DPA, the contractor shall submit a final report to the ATR within 21 days.

The report shall include the contractor's technical recommendation on whether the cell is considered to be flightworthy for the AURA Program.

PERFORMANCE SPECIFICATIONS:

All plans and testing under this task are to be produced and performed using aerospace cell testing Practice.

Reports and Documents: Technical performance will be based on thoroughness and completeness of written reports. Acceptable performance is that the ATR is satisfied that the material reflects the proper level of technical expertise and meets the objectives of the activity.

APPLICABLE DOCUMENTS:

None.

TASK END DATE: 12/15/00**MILESTONES/DELIVERABLES AND DATES:**

Pre-electrical characterization test results

Within 72 hours of the completion

Cell opening date and time

Within 72 hours prior to the event

Complete DPA

Within 3 months of receipt of cell by the contractor

Interim Report

Within 10 days after completion of DPA

Final Report

Within 21 days after completion of DPA

PERFORMANCE STANDARDS:

Schedule: On-time delivery/completion of the deliverables/milestones

Technical: ATR's acceptance of the above

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Gopal Rao, building 20, room 166